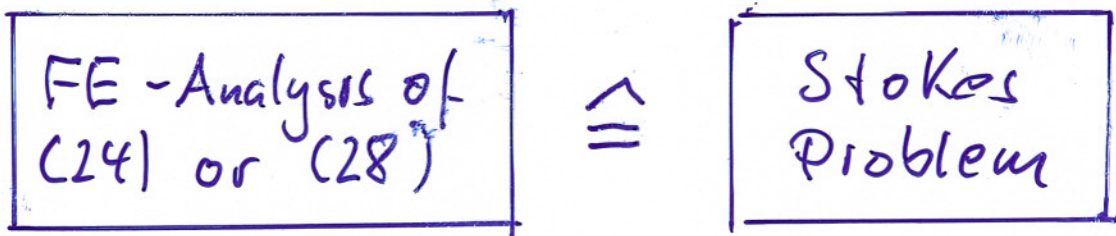


FE-Discretization and Analysis:
 → Discrete LBB-condition

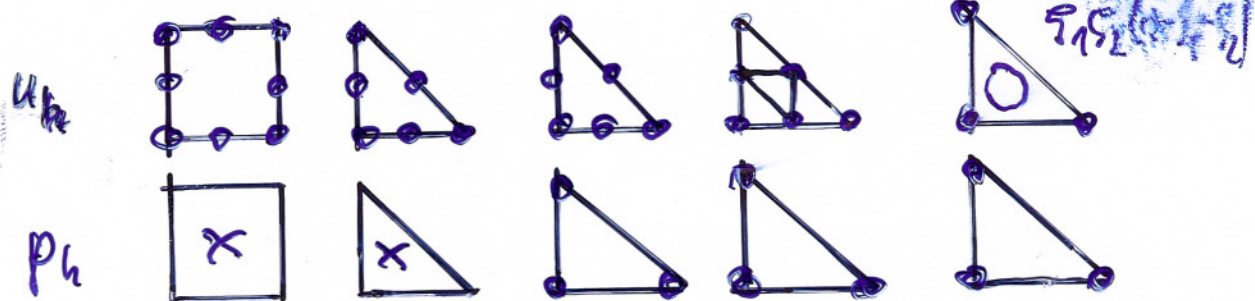
$$(29) \sup_{u_h \in X_h} \frac{(\operatorname{div} u_h, p_h)_0}{\|u_h\|_1} \geq \tilde{\beta}_1 \|p_h\|_0 \quad \forall p_h \in \Lambda_h$$

→ can be borrowed from CFU since



In particular, we can use stable element pairs for u and p for Stokes
 (\Leftrightarrow discrete LBB with $\tilde{\beta}_1 \neq \beta_1(h)$!)
 for the FE-Discretization of (24) and (28)

For instance, in 2D



+ bubble
 $\beta_1 \neq \beta_1(h)$

↑
Taylor-Hood